

SYSTEM AND METHOD FOR COMMUNICATING COALESCED RULE PARAMETERS IN A DISTRIBUTED COMPUTING ENVIRONMENT

Abstract

A system and a method for communicating coalesced rule parameters in a distributed computing environment are described. A plurality of packet validation devices are communicatively interposed between network routing points within the distributed computing environment. The packet validation devices apply parameterized rules to transiting network packet traffic. A plurality of processing tree nodes are configured into a concast tree. In a lowermost layer of the concast tree, each processing tree node collects and coalesces rule parameters from at least one packet validation device. In each successive layer of the concast tree, each processing tree node collects and coalesce the rule parameters from at least one processing tree node in a next lower layer of the concast tree. A control center assembles the coalesced rule parameters from each packet validation device in an uppermost layer of the concast tree. The coalesced rule parameters are forwarded from the control center to each packet validation device along a dissemination path.